Artificial Limbs

VOLUME 2, 1955

ADVISORY COMMITTEE on ARTIFICIAL LIMBS

NATIONAL ACADEMY OF SCIENCES—NATIONAL RESEARCH COUNCIL
2101 Constitution Ave.

Washington 25, D. C.

Artificial Limbs is a publication of the Advisory Committee on Artificial Limbs, National Academy of Sciences—National Research Council, issued three times a year, in January, May, and September, in partial fulfillment of Veterans Administration Contract VAm-21223. Copyright 1956 by the National Academy of Sciences—National Research Council, Quoting and reprinting are freely permitted, providing appropriate credit is given. The opinions expressed by contributors are their own and are not necessarily those of the Advisory Committee on Artificial Limbs. Library of Congress Catalog Card No. 55-7710.

Editorial Board: F. S. Strong, Jr., A. Bennett Wilson, Jr., Bryson Fleer

CONTENTS

No. 1, January 1955	Page
PRELUDE, PROPHECY, AND PROMISE	
John B. deC. M. Saunders	1
THE LOWER-EXTREMITY CLINICAL STUDY ITS BACKGROUND AND OBJECTIVES	
Verne T. Inman and Howard D. Eberhart	4
FUNCTIONAL CONSIDERATIONS IN THE FITTING OF ABOVE-KNEE PROSTHESES	
Charles W. Radcliffe	35
No. 2, May 1955	
ENGINEERING HOPE OF THE HANDLESS	
Eugene F. Murphy	1
THE ANTHROPOLOGY AND SOCIAL SIGNIFICANCE OF THE HUMAN HAND	
Ethel J. Alpenfels	
THE ANATOMY AND MECHANICS OF THE HUMAN HAND	
Craig L. Taylor and Robert J. Schwarz	22
SOME PROBLEMS IN THE MANAGEMENT OF UPPER-EXTREMITY AMPUTEES	
Frederick E. Vultee	36
THE NOTICEABILITY OF THE COSMETIC GLOVE	
Tamara Dembo and Esther Tane-Baskin	47
COLOR REALISM IN THE COSMETIC GLOVE	
W. A. Carnelli, M. G. DeFries, and Fred Leonard	57
THE CHOICE OF TERMINAL DEVICES	
Sidney Fishman and Norman Berger	66
THE PRINCIPLES OF ARTIFICIAL-HAND DESIGN	
Maurice J. Fletcher and Fred Leonard	78
No. 3, September 1955	
HARNESSING-HERE AND HEREAFTER	
John Lyman	1
THE BIOMECHANICS OF CONTROL IN UPPER-EXTREMITY PROSTHESES	
Craig L. Taylor	4
HARNESS PATTERNS FOR UPPER-EXTREMITY PROSTHESES	
Robert J. Pursley	26
SOME EXPERIENCE IN HARNESSING EXTREME ARM CASES	
Craig L. Taylor	61

DIGEST OF MAJOR ACTIVITIES OF THE ARTIFICIAL LIMB PROGRAM

January, p. 61; May, p. 95; September, p 64.



